



Complete Summary

TITLE

Radiology: percentage of final reports for procedures using fluoroscopy that include documentation of radiation exposure or exposure time.

SOURCE(S)

American College of Radiology, Physician Consortium for Performance Improvement®, National Committee for Quality Assurance. Radiology physician performance measurement set. Chicago (IL): American Medical Association, National Committee for Quality Assurance; 2009 Feb. 42 p.

Measure Domain

PRIMARY MEASURE DOMAIN

Process

The validity of measures depends on how they are built. By examining the key building blocks of a measure, you can assess its validity for your purpose. For more information, visit the [Measure Validity](#) page.

SECONDARY MEASURE DOMAIN

Does not apply to this measure

Brief Abstract

DESCRIPTION

This measure is used to assess the percentage of final reports for procedures using fluoroscopy that include documentation of radiation exposure or exposure time.

RATIONALE

Data suggests that the lifetime risk for cancer can be increased, albeit by a small amount, with frequent or repeated exposure to ionizing radiation, including procedures using fluoroscopy. The Biological Effects of Ionizing Radiation (BEIR) report concluded that "the linear no-threshold model (LNT) provided the most reasonable description of the relation between low-dose exposure to ionizing radiation and the incidence of solid cancers that are induced by ionizing radiation." In order to monitor these long term effects, the exposure time or radiation dose

that a patient receives as a result of the procedure should be measured and recorded in the patient's record.*

*The following clinical recommendation statements are quoted verbatim from the referenced clinical guidelines and represent the evidence base for the measure:

Radiation dose related information provided by automated dosimetry systems should be recorded in the patient's permanent record for procedures involving more than 10 minutes of fluoroscopic exposure. If automated dosimetry data is not available, fluoroscopic exposure times should be recorded in the patient's medical record for such procedures. (American College of Radiology [ACR])

[ACR] should now encourage practices to record actual fluoroscopy time for all fluoroscopic procedures. The fluoroscopy time for various procedures (e.g., upper gastrointestinal, pediatric voiding cystourethrography, diagnostic angiography) should then be compared with benchmark figures...More complete patient radiation dose data should be recorded for all high-dose interventional procedures, such as embolizations, transjugular intrahepatic portosystemic shunts, and arterial angioplasty or stent placement anywhere in the abdomen and pelvis. (ACR)

Measure & record patient radiation dose:

- Record fluoroscopy time
- Record available measures - DAP (dose area product), cumulative dose, skin dose (National Cancer Institute [NCI])

PRIMARY CLINICAL COMPONENT

Fluoroscopy procedures; documentation of radiation exposure or exposure time

DENOMINATOR DESCRIPTION

All final reports for procedures using fluoroscopy

NUMERATOR DESCRIPTION

Final reports for procedures using fluoroscopy that include documentation of radiation exposure or exposure time

Evidence Supporting the Measure

EVIDENCE SUPPORTING THE CRITERION OF QUALITY

- A clinical practice guideline or other peer-reviewed synthesis of the clinical evidence

Evidence Supporting Need for the Measure

NEED FOR THE MEASURE

Unspecified

State of Use of the Measure

STATE OF USE

Current routine use

CURRENT USE

Internal quality improvement

Application of Measure in its Current Use

CARE SETTING

Ambulatory Care
Ancillary Services
Hospitals
Physician Group Practices/Clinics

PROFESSIONALS RESPONSIBLE FOR HEALTH CARE

Physicians

LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED

Individual Clinicians

TARGET POPULATION AGE

All patients, regardless of age

TARGET POPULATION GENDER

Either male or female

STRATIFICATION BY VULNERABLE POPULATIONS

Unspecified

Characteristics of the Primary Clinical Component

INCIDENCE/PREVALENCE

Unspecified

ASSOCIATION WITH VULNERABLE POPULATIONS

Unspecified

BURDEN OF ILLNESS

Unspecified

UTILIZATION

Unspecified

COSTS

Unspecified

Institute of Medicine National Healthcare Quality Report Categories**IOM CARE NEED**

Staying Healthy

IOM DOMAIN

Safety

Data Collection for the Measure**CASE FINDING**

Users of care only

DESCRIPTION OF CASE FINDING

All final reports for procedures using fluoroscopy

DENOMINATOR SAMPLING FRAME

Patients associated with provider

DENOMINATOR INCLUSIONS/EXCLUSIONS**Inclusions**

All final reports for procedures using fluoroscopy

Exclusions

None

RELATIONSHIP OF DENOMINATOR TO NUMERATOR

All cases in the denominator are equally eligible to appear in the numerator

DENOMINATOR (INDEX) EVENT

Diagnostic Evaluation
Encounter
Therapeutic Intervention

DENOMINATOR TIME WINDOW

Time window is a single point in time

NUMERATOR INCLUSIONS/EXCLUSIONS**Inclusions**

Final reports for procedures using fluoroscopy that include documentation of radiation exposure or exposure time

Exclusions

None

MEASURE RESULTS UNDER CONTROL OF HEALTH CARE PROFESSIONALS, ORGANIZATIONS AND/OR POLICYMAKERS

The measure results are somewhat or substantially under the control of the health care professionals, organizations and/or policymakers to whom the measure applies.

NUMERATOR TIME WINDOW

Encounter or point in time

DATA SOURCE

Administrative data
Medical record

LEVEL OF DETERMINATION OF QUALITY

Individual Case

PRE-EXISTING INSTRUMENT USED

Unspecified

Computation of the Measure**SCORING**

Rate

INTERPRETATION OF SCORE

Better quality is associated with a higher score

ALLOWANCE FOR PATIENT FACTORS

Unspecified

STANDARD OF COMPARISON

Internal time comparison

Evaluation of Measure Properties**EXTENT OF MEASURE TESTING**

Unspecified

Identifying Information**ORIGINAL TITLE**

Measure #8: exposure time reported for procedures using fluoroscopy.

MEASURE COLLECTION

[The Physician Consortium for Performance Improvement® Measurement Sets](#)

MEASURE SET NAME

[Radiology Physician Performance Measurement Set](#)

SUBMITTER

American Medical Association on behalf of the American College of Radiology, Physician Consortium for Performance Improvement®, and National Committee for Quality Assurance

DEVELOPER

American College of Radiology
National Committee for Quality Assurance
Physician Consortium for Performance Improvement®

FUNDING SOURCE(S)

Unspecified

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FINANCIAL DISCLOSURES/OTHER POTENTIAL CONFLICTS OF INTEREST

Conflicts, if any, are disclosed in accordance with the Physician Consortium for Performance Improvement® conflict of interest policy.

ENDORSER

National Quality Forum

INCLUDED IN

Ambulatory Care Quality Alliance
Physician Quality Reporting Initiative

ADAPTATION

Measure was not adapted from another source.

RELEASE DATE

2007 Oct

REVISION DATE

2009 Feb

MEASURE STATUS

This is the current release of the measure.

This measure updates a previous version: American College of Radiology, Physician Consortium for Performance Improvement®, National Committee for Quality Assurance. Radiology physician performance measurement set. Chicago (IL): American Medical Association, National Committee for Quality Assurance; 2007 Oct. 42 p.

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American College of Radiology, Physician Consortium for Performance Improvement®, National Committee for Quality Assurance. Radiology physician performance measurement set. Chicago (IL): American Medical Association, National Committee for Quality Assurance; 2009 Feb. 42 p.

MEASURE AVAILABILITY

The individual measure, "Measure #8: Exposure Time Reported for Procedures Using Fluoroscopy," is published in the "Radiology Physician Performance Measurement Set." This document and technical specifications are available in Portable Document Format (PDF) from the American Medical Association (AMA)-convened Physician Consortium for Performance Improvement® Web site: www.physicianconsortium.org.

For further information, please contact AMA staff by e-mail at cqi@ama-assn.org.

NQMC STATUS

This NQMC summary was completed by ECRI Institute on February 1, 2008. The information was verified by the measure developer on April 10, 2008. This NQMC summary was updated by ECRI Institute on April 23, 2009. The information was verified by the measure developer on September 16, 2009.

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